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NOTICE OF ALLOWANCE AND FEE(S) DUE

20529

7590

07/30/2009

THE NATH LAW GROUP 112 South West Street Alexandria, VA 22314 EXAMINER

ALDRICH, SERENA HANOR

ART UNIT PAPER NUMBER

1793

DATE MAILED: 07/30/2009

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INV		ENTOR ATTORNEY DOCKET NO		
10/588,216	08/02/2006	Saila Mariatta Karvinen	27465U	5748	

TITLE OF INVENTION: TITANIUM OXIDE PRODUCT METHOD FOR MAKING THE SAME AND ITS USE AS A PHOTOCATALYST

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	Ţ	oaper	rs. Each additiona	l paper	g can only be used for icate cannot be used by such as an assignmental or transmission.	or dom for any ent or f	nestic mailings of the other accompanying formal drawing, must	
THE NATH L. 112 South West Alexandria, VA	AW GROUP Street	//2009] S £	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
			ſ						(Depositor's name)
									(Signature)
			Į						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	COI	NFIRMATION NO.
10/588,216 TITLE OF INVENTION	08/02/2006 : TITANIUM OXIDE P	RODUCT METHOD FO	Saila Mariatta Karvin R MAKING THE SAN		ND ITS USE AS	А РНС	27465U DTOCATALYST		5748
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nonprovisional	NO	\$1510	\$300		\$0	\$1810		•	10/30/2009
EXAMINER ART UNIT			CLASS-SUBCLASS	\neg	٦				
ALDRICH, SEI	1793	423-610000	_						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Uni	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form	data will appear on th	native ingle or ag attorn be p type type an a	firm (having as a gent) and the namely sor agents. If wrinted.	membes of uno nam	p to ge is 3 dentified below, the d	ocume	ent has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	orporati	ion or other private gr	oup en	tity 🗖 Government
4a. The following fee(s) Issue Fee Publication Fee (N Advance Order -	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
NOTE: The Issue Fee an	s SMALL ENTITY state	us. See 37 CFR 1.27.	b. Applicant is no						
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.						
Authorized Signature					Date				
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the tons for reducing this bu (irginia 22313-1450. DC 113-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS	or re estindivid ficer TO	tain a benefit by t mated to take 12 r dual case. Any co , U.S. Patent and THIS ADDRESS	he pub minutes mment Traden S. SEN	lic which is to file (an is to complete, including its on the amount of tinark Office, U.S. Dep D TO: Commissioner	d by th ng gath me you artmen for Pa	te USPTO to process) tering, preparing, and a require to complete at of Commerce, P.O. tents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION NO.	FII	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/588,216	10/588,216 08/02/2006		Saila Mariatta Karvinen	27465U	5748		
20529	7590	07/30/2009		EXAM	INER		
THE NATH LA	AW GRO	UP		ALDRICH, SERENA HANOR			
112 South West				ART UNIT	PAPER NUMBER		
Alexandria, VA 22314				1793			
				DATE MAILED: 07/30/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 295 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 295 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)						
	10/588,216	KARVINEN ET AL.						
Notice of Allowability	Examiner	Art Unit						
	SERENA L. HANOR	1793						
	SERENA L. HANOR	1793						
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat IGHTS. This application is subject	application. If not included ion will be mailed in due course. THIS						
1. X This communication is responsive to Remarks and Amend	lments filed on 05/20/2009.							
2. X The allowed claim(s) is/are <u>1-12,15-17,21,22 and 26-44.</u>								
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	- , , , , , ,							
2. Certified copies of the priority documents have	been received in Application No	·						
3. Copies of the certified copies of the priority do	cuments have been received in th	nis national stage application from the						
International Bureau (PCT Rule 17.2(a)).								
* Certified copies not received:								
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		oly complying with the requirements						
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give								
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.							
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached								
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date								
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in th	e Office action of						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t								
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT								
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	al Patent Application						
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa	• •						
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail ∣ 7. ⊠ Examiner's Amel	Date						
Paper No./Mail Date								
 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☐ Examiner's Statement of Reasons for Allowand Other 9. ☐ Other 								
/Timothy C Vanoy/	J. [] Julei							
Primary Examiner, Art Unit 1793								

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Susanne Hopkins on 07/22/2009.

The application has been amended as follows:

In claim 15 line 1, please replace "A" with --The--.

In claim 16 line 1, please replace "A" with --The--.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

- 1. Independent claim 1 and the claims dependent thereon have been allowed because none of the references of record teach or suggest a process for manufacturing
- a particulate titanium dioxide product, comprising a step wherein an amount of sulphate
- in the range of 1-5% by weight, calculated on the basis of the amount of TiO2 in the
- solution, is added into the aqueous solution of the titanium oxychloride.
- 2. Independent claim 21 has been allowed because none of the references of

record teach or suggest a photocatalyst comprising a titanium dioxide product made by

a process comprising a step wherein an amount of sulphate in the range of 1-5% by

weight, calculated on the basis of the amount of TiO2 in the solution, is added into the

aqueous solution of the titanium oxychloride.

3. Independent claim 22 has been allowed because none of the references of record teach or suggest a photocatalyst comprising a titanium dioxide product made by a process comprising a step wherein an amount of sulphate in the range of 1-5% by weight, calculated on the basis of the amount of TiO2 in the solution, is added into the aqueous solution of the titanium oxychloride.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 1-12, 15-17, 21, 22 and 26-44 have been allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SERENA L. HANOR whose telephone number is (571)270-3593. The examiner can normally be reached on Monday - Thursday 8:00 AM - 5:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SLH

/Timothy C Vanoy/ Primary Examiner, Art Unit 1793